

Title (en)

HUMANIZED ANTIGEN-BINDING DOMAINS AGAINST CD19 AND METHODS OF USE

Title (de)

HUMANISIERTE ANTIGENBINDENDE DOMÄNEN GEGEN CD19 UND VERFAHREN ZUR VERWENDUNG

Title (fr)

DOMAINES DE LIAISON À L'ANTIGÈNE HUMANISÉS DIRIGÉS CONTRE LES CD19 ET LEURS PROCÉDÉS D'UTILISATION

Publication

**EP 3615146 A1 20200304 (EN)**

Application

**EP 18723320 A 20180424**

Priority

- US 201762489258 P 20170424
- US 2018029107 W 20180424

Abstract (en)

[origin: US2018312588A1] The invention provides a humanized anti-CD19 antibody or antigen binding fragment thereof comprising a light chain variable (VL) region and a heavy chain variable (VH) region in which the humanized VL and VL regions are derived from the mouse anti-CD19 clone FMC63 antibody; the humanized VL and/or humanized VH region comprise one or more amino acid substitutions in the framework region. The humanized anti-CD19 antibody or antigen binding fragment may be part of a single chain variable fragment (scFv), a chimeric antigen receptor (CAR) or a T cell receptor (TCR). Other aspects of the invention relate to cells comprising the CAR or the TCR and their use in a T cell therapy.

IPC 8 full level

**A61P 35/02** (2006.01); **C07K 16/28** (2006.01)

CPC (source: EP KR US)

**A61K 35/17** (2013.01 - US); **A61K 39/4611** (2023.05 - EP KR); **A61K 39/4631** (2023.05 - EP KR); **A61K 39/464412** (2023.05 - EP KR); **A61P 35/00** (2018.01 - EP KR US); **A61P 35/02** (2018.01 - EP US); **C07K 14/7051** (2013.01 - US); **C07K 14/70521** (2013.01 - KR); **C07K 16/2803** (2013.01 - EP KR US); **A61K 2039/505** (2013.01 - KR US); **A61K 2039/572** (2013.01 - US); **C07K 2317/24** (2013.01 - EP KR US); **C07K 2317/31** (2013.01 - US); **C07K 2317/55** (2013.01 - EP US); **C07K 2317/56** (2013.01 - US); **C07K 2317/565** (2013.01 - US); **C07K 2317/622** (2013.01 - EP KR US); **C07K 2317/73** (2013.01 - KR US); **C07K 2317/92** (2013.01 - EP US); **C07K 2317/94** (2013.01 - EP US); **C07K 2319/03** (2013.01 - EP US); **C07K 2319/30** (2013.01 - US); **C07K 2319/33** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**US 10844120 B2 20201124**; **US 2018312588 A1 20181101**; AR 111418 A1 20190710; AU 2018257894 A1 20191031; AU 2021212061 A1 20210826; AU 2021212061 B2 20240530; BR 102018008260 A2 20200428; CA 3060426 A1 20181101; CN 110545883 A 20191206; CN 110545883 B 20240402; EP 3615146 A1 20200304; EP 3615146 B1 20231101; EP 4286415 A2 20231206; EP 4286415 A3 20240612; ES 2963598 T3 20240401; JO P20180042 A1 20190130; JP 2020517302 A 20200618; JP 2022028750 A 20220216; JP 2024056792 A 20240423; JP 6975841 B2 20211201; JP 7434250 B2 20240220; KR 102363742 B1 20220217; KR 102481262 B1 20221226; KR 20190141211 A 20191223; KR 20220025904 A 20220303; KR 20230006027 A 20230110; PT 3615146 T 20231127; SG 10201912400V A 20200227; SG 11201909499Q A 20191128; TW 201902928 A 20190116; TW 202233691 A 20220901; TW I768034 B 20220621; TW I835141 B 20240311; US 2021061910 A1 20210304; UY 37694 A 20181130; WO 2018200496 A1 20181101

DOCDB simple family (application)

**US 201815961562 A 20180424**; AR P180101041 A 20180424; AU 2018257894 A 20180424; AU 2021212061 A 20210805; BR 102018008260 A 20180424; CA 3060426 A 20180424; CN 201880026644 A 20180424; EP 18723320 A 20180424; EP 23200491 A 20180424; ES 18723320 T 20180424; JO P20180042 A 20170424; JP 2020507516 A 20180424; JP 2021181622 A 20211108; JP 2024016748 A 20240207; KR 20197034220 A 20180424; KR 20227004726 A 20180424; KR 20227044928 A 20180424; PT 18723320 T 20180424; SG 10201912400V A 20180424; SG 11201909499Q A 20180424; TW 107113912 A 20180424; TW 111118633 A 20180424; US 2018029107 W 20180424; US 202017094335 A 20201110; UY 37694 A 20180424